



Drive Your Green Future

E-Bike Controller ACD-E500

1. Using SVPWM FOC control, it can support any brushless DC motor to optimize the system and get higher efficiency and stable power output.
2. The optimized rigidity and heat dissipation structure design makes the product structure simple and have the best heat dissipation effect to increase the service life time with good reliability.
3. System will automatically start the load reduction protection process when the battery is almost exhausted, but still continuous the power output to ensure enough power when returning to charging. Besides, also can maintain a comfortable ride feeling.
4. In the pedal sensing mode, with the best power output curve, the rider can get the appropriate auxiliary power, no more, no less, just a good riding feeling.
5. Integrate mass production-oriented design concept to achieve 100% full inspection level to ensure production quality.
6. Support HMI with KM5S communication protocol.
7. Provide firmware update interface.
8. Product design complies with ISO13849-1 specification.
9. Provide motor over-current protection, over-voltage protection, battery low-voltage protection, and system over-temperature protection functions.
10. An adjustable acceleration curve/segment speed power output curve and optimal power consumption performance according to customer's demand.

ACD-E500 Specification	
Rated Power (W)	250W/350W/500W
Max peak Power (W)	375W/550W/750W
Applicable Battery Voltage (DCV)	24V/36V/48V
Output Current Limit	23A
Rated output current	15A
Low voltage Protection (V)	Intelligent reduce load function
Standby Power Consumption	0.3W
Lamp Voltage (V)	6V/12V @0.5A
Assist Mode	Torque/ Pedal sensing mode
Speed Limit	25KM/Customized Requirements
Housing Material	Aluminum Alloy
Dimensions (W X H X L)	45 X 27 X 93 mm
Supported Communication Formats	UART/CAN
Ingress Protection Ratings	IP66
Working Temperature (°C)	-20~60

Product Photo:



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